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⑥ Aktenzeichen: P 24 59 226,5  
⑦ Anmeldetag: 14. 12. 74  
⑧ Offenlegungstag: 16. 6. 76

⑨ Unionspriorität:  
⑩ ⑪ ⑫ ⑬

⑭ Bezeichnung: Verfahren zum wirtschaftlichen Verwerten der bei der Kultur von Dattelpalmen als Abfall entstehenden Roststoffe

— ⑮ Anmelder: Erzat, Sami, Dr.-Ing. 6100 Darmstadt; Kessenerstr. Heinz, 2830 Bassum

⑯ Erfinder: gleich Anmelder

**DT 24 59 226 A1**

ORIGINAL INSPECTED

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WEEK:

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TITLE: Utilisation of [REDACTED] waste by cooking with ammonium polysulphide to recover cellulose, and treatment of the waste liquor for fertiliser (and fodder) mfr

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**Basic Abstract Text - ABTX (1):**

Process for economic utilisation of raw materials, i.e. palm leaves and petioles, produced as waste during cultivation of [REDACTED] (*Phoenix dactylifera*) comprises (i) decomposing with an NH<sub>4</sub> polysulphide to prepare cellulose (i) then (ii) separating (i) from the waste liquor and conventionally washing, grinding and drying. The waste liquor is then (a) adjusted to pH 6-7 to recover an N-lignin residue (ii) which is dried or (b) after pH adjustment inoculated with yeast, fermented, then sepd. into a yeast-contg. fraction (ii) and a residue (iii). The cellulose can be bleached to make white paper or (if made from leaves) used to make kraft and corrugated paper. (ii) is useful as a fertilizer, and (iii) is useful as cattle fodder. Delignification is rapid and the NH<sub>3</sub>-recycle system requires no extra investment.

**Title - TIX (1):**

Utilisation of [REDACTED] waste by cooking with ammonium polysulphide to recover cellulose, and treatment of the waste liquor for fertiliser (and fodder) mfr

**Standard Title Terms - TTX (1):**

UTILISE [REDACTED] WASTE COOK AMMONIUM POLYSULPHIDE RECOVER CELLULOSE TREAT LIQUOR FERTILISER FODDER MANUFACTURE